

DEPARTMENT OF TRANSPORTATION
NATIONAL TRANSPORTATION SAFETY BOARD
OFFICE OF MARINE SAFETY

In the Matter of:

MAJOR MARINE ACCIDENT,
DCA 03 MM 032

May 26, 2003

INTERVIEW OF:

TOR HOYLAND

The above entitled matter came on
for hearing, pursuant to notice.

PRESENT:

TOM ROTH-ROFFY, NTSB
BRIAN CURTIS, NTSB
BARRY STRAUCH, NTSB
CARLOS PAILLACAR, USCG
GREG CALLAGHAN, USCG
STEVE CMAR, NCL
JOHN BUTCHKO, Miami Dade Homicide
NANCY MCATEE, NTSB
CAPTAIN HUUS, Bahama Maritime Authority

1 P R O C E E D I N G S

2 MR. ROTH-ROFFY: Good afternoon. The date is
3 the 26 of May 2003 and the time is about 1:30 in the
4 afternoon. And we are here to interview Mr. Hoyland,
5 second engineer onboard the Norway.

6 Sir, for your information, my name is Tom
7 Roth-Roffy. I am a Marine Engineering Accident
8 Investigator with the National Transportation Safety
9 Board in Washington, D.C. And we are here to conduct
10 an investigation of the accident that occurred on the
11 Norway yesterday.

12 Our investigation is strictly a safety
13 investigation. It is not a legal investigation. And
14 we will make no attempt to identify person responsible
15 for the accident or to assign blame, so, again, it is
16 not a legal investigation. It is strictly safety. Our
17 intent is to determine the cause of the accident, if we
18 can, and then to make recommendations aimed at
19 preventing future similar accidents.

20 So, at this time I would like to go ahead and
21 have everybody in the room introduce themselves, with
22 their affiliation.

23 MR. CURTIS: Brian Curtis, NTSB, Marine
24 Engineering, Accident Investigator.

25 MR. STRAUCH: Barry Strauch, NTSB, Human
26 Performance Investigator.

27 LIEUTENANT CALLAGHAN: Greg Callaghan, U.S.
28 Coast Guard, Marine Safety Office, Miami, Marine
29 Inspector.

30 MR. PAILLACAR: Carlos Paillacar, U.S. Coast
31 Guard, Miami Investigation.

32 MR. CMAR: Stephen Cmar, Norwegian Cruise
33 Line.

34 MR. BUTCHKO: John Butchko, Miami Dade Police
35 Department, Homicide Bureau.

36 MS. MCATEE: Nancy McAtee, NTSB, Fire
37 Explosion Specialist.

38 CAPTAIN HUUS: Captain Huus, Bahama Maritime
39 Authority.

40 MR. ROTH-ROFFY: Okay. That is everybody in
41 the room with the exception of the attorney. Sir, you
42 have a right to have somebody assist you with the
43 interview and is it your desire to have this person
44 here assist you? And could you identify yourself.

45 MR. FARKAS: My name is Dan Farkas. I am an
46 attorney representing Tor here and I have my assistant
47 also with me.

48 MR. ROTH-ROFFY: Okay. Okay. So, we will go
49 ahead and begin the interview, sir.

50 EXAMINATION OF MR. HOYLAND:

51 BY MR. ROTH-ROFFY:

52 Q Sir, if you would just think back to Saturday

1 evening when you went to bed, you know, you work up
2 Sunday, whatever time you got up on Sunday, and
3 describe everything that you did in as much detail as
4 you can, to a time after the explosion. Go ahead, sir.
5 MR. FARKAS: Just for clarity, can we use
6 dates.
7 MR. ROTH-ROFFY: Sure.
8 BY MR. ROTH-ROFFY:
9 Q We are talking about Sunday, the 25th. You
10 can start there. Which watch do you have, sir?
11 A Four to eight.
12 Q Four to eight. So, you woke up on Sunday
13 morning, the 25th.
14 A Yes.
15 Q Could you just start from there? What time
16 you woke up?
17 A I walked down to the engine control room
18 before, a couple of minutes before four o'clock in the
19 morning. About 10 minutes, about 10 minutes before.
20 It was standby. It was standby operation. I was there
21 just normal standby operation.
22 We come along side Port of Miami. Everything
23 looks normal. When the standby was -- I was standby,
24 people walked out on the end of the -- and I was
25 relieved of my duty. But, everything still looks
26 normal. And standby is complete, over, I don't
27 remember exactly when, three, four -- something before,
28 I don't know exactly.
29 Zero, six, thirty seven was a big explosion.
30 Only a few minutes before I had been working around in
31 the engine control and it looked all, all, everything
32 looks fine in engine control from the point of time,
33 from the main switchboard. Everything just looks
34 normal. And I went back to the -- was stopped by,
35 everything on their computer, standby notebook. And
36 that is when it happened. The big explosion. I talked
37 to the -- and saw the smoke coming in the door from the
38 starboard side. And I called the chief engineer. He
39 was there very, very fast. I know I was sitting in the
40 control room, making notes. And that is it. I was
41 there all the time. I didn't leave the engine room,
42 control room before abandon ship signal.
43 Q Anything else you would like to add?
44 A No.
45 Q Okay. So, a little more detail. When you
46 went down to relieve the watch, what was the name of
47 the person you relieved?
48 A The person I relieved was Tron Kristensen.
49 Q And when you relieved --
50 A I --
51 MR. FARKAS: Having him look for the name.
52 (Pause.)

1 MR. FARKAS: Would you spell that for the
2 record, so we all have it?
3 MR. ROTH-ROFFY: Sure. K-R-I-S-T-E-N-S-E-N.
4 MR. FARKAS: E-N? Thank you, sir.
5 MR. ROTH-ROFFY: Kristensen.
6 BY MR. ROTH-ROFFY:
7 Q And did Mr. Kristensen tell you anything
8 about any problems that he had had on the previous
9 watch, when you relieved him?
10 A No. It was, everything was normal. There
11 was no, nothing at all.
12 Q Did he say anything to you when you relieved
13 him? What sort of things did he tell you, do you
14 recall?
15 A About what is going on in the control room --
16 the standby and he was sitting there and taking care of
17 the boats, both sides --
18 Q Your watch duties are to stand watch in the
19 control room or do you also work in the boiler room?
20 A I also am working down below every second
21 day, I was stand in the engine control.
22 Q Okay. On the other days you work down below
23 in the --
24 A Yes.
25 Q In the turbine room.
26 A Only -- but, on standby, I am in aft engine
27 room, -- engineer in afternoon, one engineer in the
28 boiler room during standby.
29 Q After the ship arrived in the Port of Miami,
30 what were your duties in terms of transition from
31 underway to in port? Were you involved in securing the
32 main engine?
33 A Everything is secured and stopped with this,
34 with this -- before the standby is over.
35 Q Okay. So --
36 A When I was there everything looked in good
37 condition and was in normal duty to Miami.
38 Q Before the explosion, did you have any
39 alarms?
40 A Nothing. Nothing at all. No indication for
41 anything, anything.
42 Q Can you recall what the last alarm was that
43 you had on your watch before the explosion?
44 A I don't remember.
45 Q Can you recall about how long it had been
46 since you had gotten an alarm? Can you maybe estimate,
47 was it five minutes, 10 minutes or an hour from the
48 time that you had the last alarm?
49 A I cannot remember. I was sitting there and --
50 and the big explosion come then. And computer started
51 alarming a lot, complete blackout of the -- and that is
52 it.

1 Q Before the explosion, did you heard a rumble
2 or a vibration?
3 A Nothing at all, nothing before the explosion,
4 with all the engines, any kind of -- No, it just
5 happened.
6 Q What are your normally assigned areas in
7 addition to watch? What equipment or area do you work
8 on for maintenance?
9 A Turbo generators.
10 Q And how turbo generators were running that
11 morning before the explosion?
12 A Six -- Wait a minute.
13 (Pause.)
14 MR. HOYLAND: It should be five, five
15 generators.
16 BY MR. ROTH-ROFFY:
17 Q And how many generators are there?
18 A Six.
19 Q Which generator was shut down?
20 A Turbo generator number 12.
21 Q And how long had that number 12 generator
22 been shut down?
23 A We don't use this one --
24 Q I am sorry, can you say that again? You use
25 which one forward?
26 A Diesel generator.
27 Q Okay. Was that running at the time?
28 A Yes.
29 Q Is that a single diesel generator that was
30 running or is there more than one?
31 A One big diesel generator, and two small ones.
32 Q And the two small ones also were running?
33 A Yes.
34 Q Do you recall what the fuel oil pressure was
35 on the burners for the boilers before the explosion?
36 A They were about one something. Fuel oil
37 pressure on the boilers, they are about one point
38 something.
39 Q One point something bar.
40 A Yes.
41 MR. FARKAS: Do you want to take a break?
42 MR. HOYLAND: If I could have some water.
43 MR. FARKAS: Okay.
44 (Pause.)
45 BY MR. ROTH-ROFFY:
46 Q And what is the normal pressure range for
47 these boilers?
48 A It varies --
49 Q What does it very high to low, say full speed
50 at sea, what would the pressure be?
51 A The pressure was 5.6, something like that.
52 Q And normally in port with light load, would

1 the pressure normally be one point something bar?
2 A Yes, it depends on the load on the
3 generators, but one point was --
4 Q Normally at sea with high load you have five
5 burners lit off, firing. And at some point when you
6 come into port or slow down --
7 A We take off one, sometimes two burners on
8 each boiler.
9 Q And which burners would you normally shut off
10 or did it vary?
11 A The upper one and then other one.
12 Q Okay. So you would do the upper one first,
13 and then the lower one? Or would you do the lower one
14 first and then the upper one?
15 A This is --
16 Q I am sorry, could you repeat that, because I
17 didn't quite understand it. Normally the first burner
18 that you shut off would be, which one?
19 A Number one, that is normally, we always take
20 off the highest number.
21 Q And who would give that order to shut off one
22 burner? Would you do it from the control room or would
23 the, who would do it?
24 A The stoker in the boiler room do it
25 automatic.
26 Q So, if you are running at full speed at sea
27 and then you slow down, at what fuel oil pressure would
28 you cut out a burner or would you shut off the burner,
29 or do you know, approximately?
30 A Normally we keep both burners, we are on the
31 burner low load, we have to keep our eye on the oil
32 pressure all the time and boiler pressure. That is,
33 that was --
34 Q So you don't have a particular fuel pressure,
35 say when it hits two bars that you shut off one burner?
36 A I cannot remember at this time.
37 Q Okay. Normally do you rotate your watch
38 assignment, do you sometimes go into the boiler room to
39 stand watch or do you always stand in the control room?
40 A It is always one engineer in the control
41 room, at least one down below in the engine room. But,
42 the one standing in the engine room, has the whole
43 engine room, not just this area. Normally, you work
44 on your own, more or less all the time. Standby, you
45 are in the boiler room and off the engine room and one
46 guy forward, the forward engine room.
47 MR. ROTH-ROFFY: Okay. I am going to go ahead
48 and pass it to the next interviewer for questions.
49 MR. FARKAS: Do you want to take a break?
50 MR. HOYLAND: Can I take 10 minutes?
51 MR. ROTH-ROFFY: Okay. The time is about 10 to
52 two, we will go ahead and take a 10 minute break.

1 (Whereupon, a short recess was taken.)
2 MR. ROTH-ROFFY: Okay. The time is about five
3 minutes after two o'clock in the afternoon and we are
4 resuming our interview with the second engineer, Mr.
5 Hoyland.
6 And Mr. Brian Curtis was up next.
7 BY MR. CURTIS:
8 Q Yes, Brian Curtis, Mr. Hoyland.
9 You said you relieved Mr. Kristensen, what is
10 his position?
11 A He is 2nd engineer.
12 Q Second engineer. Okay.
13 And regarding the explosion, was it just one
14 explosion or was it a series of more than one or --
15 A Only one big explosion.
16 Q One big explosion.
17 A And a lot of vibrations, only one.
18 Q Okay. Regarding the boiler burners, any past
19 history of high carbonization on those boiler tips or
20 they seem to carbonized, that particular boiler or any
21 of the boiler seem to accumulate a lot of carbon over
22 an abnormally short period?
23 A No, everything looks --
24 Q And the tips you are using, you have been
25 using them for some time, you haven't recently gone to
26 a different size burner tip?
27 A Yes, but, that is my job, so, I am not the
28 one to ask that.
29 Q After the explosion, did you go into the
30 engine spaces?
31 A I had been in the engine room after --
32 Q Did you go after, immediately after the
33 explosion, did you go into the engine spaces?
34 A I was there when they secured the boiler
35 room. I was -- for securing the boiler room.
36 Q Now was there any fuel secured, what did you
37 secure post explosion?
38 A Secured oil tank and -- tank secured.
39 MR. CURTIS: That is it for right now.
40 MR. PAILLACAR: Carlos Paillacar, U.S. Coast
41 Guard.
42 BY MR. PAILLACAR:
43 Q During your watch, do you have any set Comm
44 schedule or reporting requirements or do you spend four
45 hours without talking to the people down in the engine
46 room? Are they are required to report to you after,
47 you know, half an hour, an hour, do they call you, do
48 they tell you everything is normal?
49 A We had a very good conversation down there.
50 We had a very good team there. We are talking a lot,
51 and -- we spoke all the time. I talked to all of them
52 very often, what is going on. And also the engine -- is

1 passing the controller sometime for to pick up some
2 information or he would give us some information and
3 then -- So, we always have a little information to each
4 other.

5 Q Do you remember when was the last time you
6 talked to the people down below? Or they came up to the
7 control room?

8 A The other, second engineer has been in
9 contact a very short time before accident. And I also
10 talked with the third engineer by the phone. He
11 answered my phone in the boiler room.

12 Q Okay.

13 A This is only a few minute before explosion.
14 MR. BUTCHKO: I have a few questions. John
15 Butchko, Miami Dade Police, Homicide.

16 BY MR. BUTCHKO:

17 Q Do you know most of, most of the men that are
18 working down there, do you know anybody by name, you
19 know Mr. Vaquesuela(ph)?

20 A I --

21 Q And do you know --

22 A I heard the name, but, I cannot see the
23 person, I don't all of the --

24 Q Okay. How about Rosalol, do you know who he
25 is?

26 A Yes.

27 Q Do you know where he was working at the time
28 of the explosion?

29 A That was the guy I talked to only a couple of
30 minutes before I talked to the boiler room. But, he
31 was, this was during --

32 Q Okay. I am sorry, was what?

33 A Rosal was -- in the operation.

34 Q Okay. He was down by the boilers.

35 A Yes. The last time I talked, was in the
36 boiler room.

37 Q Okay. That was by phone, not in person?

38 A Only by phone, yes.

39 Q And during your duties, while you are in the
40 control room, are you, are you authorized to leave the
41 control room to go anywhere in the engine area,
42 including the boiler area? Or do you have to stay in
43 that boiler room, or I am sorry, that control room for
44 that entire time?

45 A I just stay in the control room. And if I
46 want to go down, the other second engineer has to stay
47 in control room.

48 Q Okay. And the other second engineer, you
49 said, would have to stay there if you leave.

50 A Yes.

51 Q Who was the other second engineer that was
52 working while you were working?

1 A Benjaminsen.
2 Q Could you say the last name again?
3 A Benjaminsen.
4 Q And I don't know if you will be able to
5 answer this or not, but, I don't have a lot of
6 experience or a lot of knowledge about boilers and the
7 system with the boilers like this. Is there, is there
8 anything that you would know if there is something that
9 we can check into, is it possible that one employee
10 working in the boiler room area, can do something that
11 would result in an explosion, push a wrong button,
12 close the wrong door, by accident? Is it possible that
13 one person, a human being, down there at the boiler
14 room could cause an explosion like this? Is that
15 something that somebody can make a mistake that would
16 cause the explosion?
17 A They had a lot of experience.
18 Q I realize with the experience, but is there
19 something that, is it possible? I am not saying it
20 happened in this case and I am not pointing a finger at
21 anybody, but, is it possible that a person working at
22 the boiler could make a mistake that could cause an
23 explosion, even, even with experience? And again, I am
24 not saying that happened here, because I don't know if
25 that happened, but is that something that could happen?
26 A No.
27 Q Is there any unsafe procedures, maybe if I
28 ask it that way, is there any unsafe procedures that
29 can be done by an employee at a boiler that can cause
30 an explosion? Mix the wrong fuel, whatever, is that
31 possible to do? Let's say an inexperienced person,
32 let's say I was down at the boiler room, can I cause an
33 explosion by myself?
34 A Well -- fuel down there, but it was under
35 steam pressure in the boiler, with safety valves. It
36 is not possible.
37 Q Not possible, okay.
38 And are there any employees that work in the
39 boiler area and I don't know if you are the right
40 person to ask this, that has been disciplined for
41 unsafe practices or doing something in the boiler room
42 that you deemed unsafe, do you know if any of your
43 employees that have been disciplined for that?
44 A They do all as safe as possible.
45 Q Okay. So you don't know of any that have had
46 to be disciplined for doing an unsafe practice or doing
47 something they shouldn't be doing at the boiler room?
48 A No.
49 MR. BUTCHKO: Okay. I have no further
50 questions.
51 MR. CMAR: I don't have any questions.
52 MR. STRAUCH: I have a few questions.

1 MR. ROTH-ROFFY: Barry Strauch, NTSB.
2 BY MR. STRAUCH:
3 Q Mr. Hoyland, could you describe for us, I am
4 also not familiar with your work. Can you just
5 describe what your duties and responsibilities are?
6 A My responsibility going to this accident, in
7 the control room. My responsibility is, is to take
8 care of the all the instruments and if something is
9 wrong, try to pick it up as soon as possible. And
10 keep an eye on the -- on the scale all the time. And
11 check it out, what color alarm and I will call down
12 and -- The screen level below, if it is -- enough, then
13 you -- in the control room.
14 Q All right, you said you tell the guys what to
15 do, does that mean you also supervise people?
16 A We are all have very good conversations.
17 Nobody, they know what to do --
18 Q During operations, how many people are below
19 and how many people are above?
20 A The control room, during normal operation,
21 only one guy there.
22 Q Okay.
23 A And then down, there is one in the forward.
24 There is one guy in the boiler room. There is one
25 second engineer working the boiler -- and one worker.
26 Q At the time of the explosion, was this the
27 compliment of people that were there, the people that
28 you just described?
29 A Yes.
30 Q Okay. Were any of these people relatively
31 new with experience, or did everybody come --
32 A -- yes.
33 Q Any others?
34 A -- have been on this ship since November.
35 Q Okay.
36 A The second engineer for about a year.
37 Q How long have you been on the ship?
38 A I start in June '94.
39 Q You have been on the ship the whole time
40 since then?
41 A I have been two years at shore.
42 Q In those two years, were you, what kind of
43 duties were you doing then in terms of --
44 A I was working -- a step up.
45 Q What years were that?
46 A Huh?
47 Q What years was that?
48 A It was late 2000 to 2002.
49 Q All right. So you worked there for six
50 years, took two years off and then you came back and
51 you have been there about a year since then.
52 A Yes.

1 Q Okay. From the time you came back, from the
2 time you left, to the time you came back in May of
3 2000, did anything change in the boiler room?
4 A I wasn't working this ship all the time.
5 Q Okay. Could you tell us what years you with
6 the ship and what years you were on different ship?
7 A On this ship?
8 Q Yes.
9 A I come back to this ship, November 2002. I
10 have one contract on this ship, a couple of years ago.
11 I have only three contracts.
12 Q Okay. So, from the period between June '94
13 and the present, about how long have you worked on this
14 ship?
15 A From '94 to now?
16 Q Well, from '94 until now, how long have you
17 been on this ship?
18 A First when I worked on the Norway was, the
19 middle of December '98. I signed on for '99. And after
20 I transferred to company, I was working on the -- and
21 then I went ashore.
22 Q Okay. So other the years that you were
23 working for a different company?
24 A Yes.
25 Q Okay. So, the only time you worked for the
26 Norwegian Cruise Line was on the Norway?
27 A --
28 Q Any time you have worked on the Norway, how,
29 have you seen any type changes in either the machinery,
30 itself, or the reliability of the machinery?
31 A Before, more people down there, in the time.
32 Q Okay.
33 A I was --
34 Q Okay. About how many people were there when
35 you first started?
36 A I contracted in '98 and '99. It was -- in
37 the control room and -- a watchman in the forward, one
38 in the boiler room. And the second engineer was in
39 both, three or four second engineers stayed below.
40 Q What has been the effect in the reduction in
41 the number of personnel, what has been the effect of
42 the reduced number of personnel on the operation?
43 A Much more to do for the others.
44 Q Much more to do for you to do and everyone to
45 do?
46 A Yes, for the guys down below it is a much
47 more to do for them.
48 Q Has this had any effect on the reliability of
49 the machinery?
50 A It is difficult to say.
51 MR. FARKAS: Please don't guess. If you know,
52 just answer the question.

1 BY MR. STRAUCH
2 Q Well, let me ask this. If part of your job
3 and part of other people's jobs are to respond to
4 readings that are, that indicate that something needs
5 to responded to.
6 A Yes.
7 Q Has there been any change in the number of
8 things that need to be responded to, that -- been fewer
9 people?
10 MR. FARKAS: Can you ask that again?
11 MR. STRAUCH: I am not sure I can.
12 MR. FARKAS: Because I don't know if I
13 understood. Do you understand the question?
14 MR. HOYLAND: No.
15 MR. FARKAS: I am sorry, I didn't understand
16 the question.
17 MR. STRAUCH: It really wasn't a good
18 question.
19 BY MR. STRAUCH:
20 Q What I am trying to say, without trying to
21 lead you, is with fewer people, have you seen more
22 alarms missed because there were fewer people around?
23 A Well, it is so important the alarm coming, we
24 react.
25 Q Okay.
26 A As fast as possible, we react. That is --
27 Q Now the speed with which people have
28 responded changed at all with the reduction in the
29 number of people?
30 A I don't know, I only did contract for --
31 Q Okay. Just one other question. Has there
32 been a change of in the number of unusual events since,
33 from the time you started with this ship to the
34 present?
35 A I --
36 Q I don't want to say emergency, abnormal
37 events, or things that are bad you know, increases,
38 changes of things that are bad with the system.
39 A You will have to ask someone else.
40 Q Okay.
41 MR. STRAUCH: Fine, thank you.
42 MR. ROTH-ROFFY: Okay. We will go ahead and
43 make another round.
44 BY MR. ROTH-ROFFY:
45 Q Tom Roth-Roffy again. You mentioned that
46 you spoke with the third engineer in the boiler room by
47 phone.
48 A Yes.
49 Q A short while before the explosion. About
50 how many minutes would you say that was?
51 A Approximately 10 minutes.
52 Q And do you recall what was said, what he told

1 you or you told him? What the reason was for the
2 conversation?
3 A I asked him about the -- and -- the
4 temperature -- reduced, the temperature was going down
5 already.
6 MR. ROTH-ROFFY: Okay. This tape is about
7 ready to run out. So, ahead and take a break right now
8 and shut the tape recorder off.
9 (Change of tape.)
10 MR. ROTH-ROFFY: Back on the record. Okay. The
11 time is about 2:52 and we are resuming our interview
12 with Second Engineer.
13 BY MR. ROTH-ROFFY:
14 Q I am sorry, the question I had asked you was
15 the ballast operation, which tanks were to be
16 ballasted, or deballasted, if you can recall that?
17 A Yes, 12.5, 12.6, 11.5, 11.6, 10.11, 10.12,
18 111.2 and the --
19 Q Okay. So all of these tanks were to be
20 deballasted.
21 A Yes, yes.
22 Q Okay. And do you know about how far along
23 they had gotten in this deballasting? Had they just
24 started?
25 A Normally we start deballasting a few minutes
26 after arriving, as soon as possible, we start.
27 Q And how long would it take to deballast all
28 those tanks, usually?
29 A Normally it should be finished about noon.
30 Q During the maneuvering into Port of Miami,
31 did you notice any other problems with the fuel oil
32 temperature, high?
33 A No.
34 Q Okay. So it was just one time that you
35 noticed it was about 140.
36 A Yes.
37 Q You also said that the second engineer had
38 come into the control room sometime before the
39 explosion.
40 A Yes, because he was going to sign up and --
41 he came to the control room -- and he went down to say
42 goodbye. And he went forward and he, and he make ready
43 for going to Immigration. He went forward, and he went
44 out on that particular pressure, only short time after
45 he left, explosion happened. But, he had been in the
46 boiler room only, maybe about five minutes before and
47 everything just looks normal there.
48 Q And what was his name, the second engineer?
49 A Benjaminsen.
50 Q Benjaminsen.
51 MR. FARKAS: He is up next.
52 MR. ROTH-ROFFY: Okay.

1 BY MR. ROTH-ROFFY:
2 Q You said you spoke with somebody in the
3 boiler room by telephone, who was that you spoke with,
4 was it with the --
5 A Rosal, third engineer.
6 Q Okay.
7 (Pause.)
8 MR. ROTH-ROFFY: Okay. Go ahead and make
9 another quick round.
10 Brian Curtis.
11 MR. CURTIS: Brian Curtis.
12 BY MR. CURTIS:
13 Q Mr. Hoyland, whose responsibility was it to
14 take the engine room readings on a periodic basis, the
15 oilers, the stokers, or whose responsibility was that
16 for the logbook?
17 A Potentially -- in the control room. Most of
18 the things I take off from the computer in the control
19 room.
20 Q Okay.
21 A And about seven, about 7:40, I will expect
22 the -- to come with all the times, information.
23 Q Okay. So, the pressure and temperatures are
24 taken from the computer and not from the actual gauges
25 on that site?
26 A Yes, that is right.
27 Q And those are entered in the logbook once for
28 each watch, all your readings are entered once for each
29 four hour watch?
30 A Yes, when I working this port watch, I hadn't
31 started the engine log, because --
32 Q Okay. So you hadn't --
33 A Every four hours.
34 Q So on your watch, you hadn't entered those
35 numbers in the logbook that, yesterday morning?
36 A No. When I start, we have the blackout.
37 Q Okay. And the other watch engineers, they,
38 do they log their entries about the same time of the
39 watch, mid watch, usually?
40 A We have log, the last time -- it is 24 watch
41 slot.
42 Q Okay. And you didn't notice any abnormalities
43 in those previous watch readings, you didn't notice
44 anything out of the ordinary?
45 A Was during the maneuvering.
46 Q Okay. On the fuel burners, themselves, do
47 you have a manual valve in line with the cylinode, is
48 that how it, the fuel to the burners?
49 A It was, there was a manual valve.
50 Q All right. So, if you secure that burner,
51 the cylinodes close, correct?
52 A Yes, and it is also a manual valve.

1 Q Yes. Okay. So, so, if you cut out number
2 five, even though the cylinode is closed, you still
3 close the manual valve as well? As a general rule of
4 operation?
5 A They did that, standard.
6 Q Okay. As part of the Safety Management
7 System, do they have checklists for boiler operations,
8 how to light the boiler off, light the burners, do you
9 follow a checklist by the Safety Management System code
10 or do they have checklists in the engine room?
11 A We have a lot of checklists in the engine
12 room, yes. We are, when the boilers is taking off or
13 something, we don't note this.
14 Q Because it is routine, considered routine?
15 A Yes.
16 Q Now, as far as lighting the boiler off, is
17 that a checklist that is, do you sign a checklist for
18 that and put it in your logbook when you actually light
19 a boiler?
20 A We sign the checklist. We have it, make sure
21 everything is okay.
22 Q And where are those checklists kept?
23 A We have it in the engine control room. We
24 have the checklists there.
25 MR. CURTIS: That is all I have right now.
26 BY MR. PAILLACAR:
27 Q Yes, Tor, this is Carlos Paillacar, again,
28 from the U.S. Coast Guard.
29 After your actions after the explosion, the
30 fuel was secured as you stated also, and you knew that
31 it was an explosion within the engine room compartment
32 of your vessel when you heard the explosion, didn't
33 you?
34 A Yes, it couldn't be anywhere else.
35 Q Right. Where the water door and the fire
36 door activated by you or by someone on the bridge at
37 that time? Were there any damage control measures
38 taken by anybody at that point? The water tight door,
39 in specifics, were they secured at the time?
40 A I cannot answer this.
41 Q All right. Did the deck officer on watch
42 secure the water tight door or you would have given,
43 you know, a request to secure the water tight door at
44 that point?
45 A Because a lot of information at the time
46 through bridge officer, so I cannot answer this when
47 the different doors closed.
48 MR. CMAR: Yes, Stephen Cmar. I will just
49 have a few real quick questions. Okay.
50 BY MR. CMAR:
51 Q Now, who was on watch with you, do you
52 remember their names, the people?

1 A Forward engine room Kristensen, Sumaylo, in
2 the boiler room, stoker in the boiler room --
3 Q That is three so far, right?
4 A And second engineer, Benjaminsen. He went
5 off before the explosion. And the watchman --
6 Q Is that it, and you?
7 A Yes, and me.
8 Q That was six, right.
9 A A total of six, yes. On this duty, yes.
10 Q And I just want to make sure of something,
11 because I wasn't sure after this question was asked,
12 that when you said fuel temperature before was high,
13 was that normal or was that not normal from what was --
14 A It is, in this condition it is normal -- I
15 had a phone call for information, but -- so, when I
16 called it was already starting to go down.
17 Q Okay. And could you explain why, then why it
18 is, why it happens, in your mind, if you know?
19 A I don't know.
20 MR. CMAR: All right, I don't have any
21 questions.
22 BY MR. ROTH-ROFFY:
23 Q Tor, have you ever experienced or observed
24 any type of a boiler explosion, even a small one before
25 this accident on any ship you have been on?
26 A Before I, I have never been on a ship when it
27 was explosion. I have been on a ship only a few days
28 after explosion.
29 Q Do you have any idea what might have caused
30 this explosion, on this ship?
31 A On the other ship?
32 Q No, on this ship here.
33 A This ship. I would not guess.
34 MR. ROTH-ROFFY: Okay. Barry Strauch, I was
35 going to ask him his 72 hour history, do you want to do
36 that as well as part of -- Okay.
37 BY MR. ROTH-ROFFY:
38 Q What I would like you to do, Tor, if you
39 could, think back about three days, back to say, last
40 Thursday, the 22nd. I believe you were in port then.
41 A St. Thomas.
42 Q Okay. Could you give me an idea of when you
43 were awake and when you slept for Thursday, Friday and
44 Saturday, you know, when you worked overtime, and just
45 to get an idea of what we call the work/rest cycle? Say
46 starting from, from Thursday morning.
47 A I have everything in my book, my work hours,
48 my rest hours, everything is in book.
49 Q Okay. So, the hours that you were on duty
50 would be logged. What about the hours that you slept.
51 Could you give us some idea of when you normally went
52 to sleep? You got off watch at eight o'clock in the

1 morning, would you have breakfast first?
2 A Yes. Talked with my friends. Sometime I
3 start work, sometimes I go into my cabin to take a
4 rest. I cannot say exactly what time I went to bed on
5 these days. Whatever I just logged in book.
6 Q Okay. I guess we can take a look at your
7 work, work logs and see if we can get an idea of how
8 many hours you were working that day, but, in general,
9 if you weren't working, would you be resting? How many
10 hours a day would you work in a normal day in the past
11 week or so, was it eight hours or 12 hours or 16 hours?
12 A Normally I work 10 hours a day.
13 Q And for the past week or so has it about 10
14 hours from what --
15 A Some days maybe a little longer, some days a
16 little shorter. But, about 10 hours a day.
17 Q And about how many hours of rest or sleep
18 would you get?
19 A I would have to say my rest and working hours
20 are getting close.
21 MR. ROTH-ROFFY: Okay. Barry Strauch.
22 MR. STRAUCH: Yes, just one question.
23 BY MR. STRAUCH:
24 Q You said that when the temperature started to
25 rise, the people downstairs responded to that?
26 A Yes. When, always, working on and looking on
27 the boiler pilot and you can see the --
28 Q Okay. What would they have done in response
29 to that?
30 A They have to go and make small adjustment on
31 the -- But, I cannot say --
32 Q Make small adjustments to what?
33 A On the cylinode. -- to say about that.
34 Q Okay.
35 MR. ROTH-ROFFY: Okay. Tor, I think that is
36 about all we have for you now. I appreciate you very
37 much coming in and talking with us and thank you very
38 much.
39 (Whereupon, the interview was concluded.)